

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S44	12	harrup-mason.in. or harrup-mason-\$.in. or STEWART-FREDERICK.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 09:20
S45	4088	(interpenetrat\$5 with (network or membrane or barrier)) and (\$2oxide\$1 or silica or alumina or titania or zirconia) and (polymer or poly\$1acrylonitrile or PAN or (polyethylene oxide) or polyethyleneoxide or PEO or (poly\$1vinyl alcohol) or PVA)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 09:38
S46	26	(interpenetrat\$5 near5 (network or membrane or barrier)) and (\$2oxide\$1 or silica or alumina or titania or zirconia) and (polymer or poly\$1acrylonitrile or (polyethylene oxide) or polyethyleneoxide or (poly\$1vinyl alcohol))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 10:43
S47	4031	(interpenetrat\$5 near5 (network or membrane or barrier)) and (\$2oxide\$1 or silica or alumina or titania or zirconia) and (polymer or poly\$1acrylonitrile or (polyethylene oxide) or polyethyleneoxide or (poly\$1vinyl alcohol))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 13:12
S48	2074	S47 and \$4composite\$1	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 10:45
S49	532	(interpenetrat\$5 near5 (network or membrane or barrier)) and (silica or alumina or titania or zirconia or (silicon \$3oxide) or (aluminum \$3oxide) or (titanium \$3oxide) or (zirconium oxide)) and (poly\$1acrylonitrile or (polyethylene oxide) or polyethyleneoxide or (poly\$1vinyl alcohol)) and \$4composite\$1	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:10
S50	1	S49 and ((ammonium near3 molybdophosphate) or (phosphenoithious near2 acid) or (\$2thiophosphinic acid) or (phosphenoithious acid) or (phosphonopyridine near3 \$1oxide\$1))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 10:49
S51	39	S49 and cesium	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:05
S52	83	S49 and ("524".clas. or "210".clas.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 10:51
S53	94	("2093454"   "2541137"   "2680696"   "2786042"   "2886460"   "2978298"   "3015645"   "3024126"   "3122520"   "3615142"   "3794713"   "3872217"   "3920865"   "4101442"   "4101443"   "4190457"   "4208316"   "4316807"   "4344800"   "4382070"   "4659749"   "4667417"   "4704374"   "4717708"   "4755294"   "4873218"   "4888309"   "4888369"   "4906676"   "4950502"   "4950635"   "4954327"   "5001183"   "5009874"   "5069815"   "5075348"   "5081163"   "5086085"   "5122291"   "5158758"   "5194333"   "5215733"   "5275796"   "5294480"   "5409683"   "5455216"   "5456745"   "5484818"   "5486356"   "5496527"   "5506290"   "5508341"   "5556892"   "5561318"   "5565142"   "5595593"   "5625013"   "5651921"   "5656195"   "5674962"   "5680713"   "5705535"   "5708069"   "5738801"   "5750610"   "5759506"   "5786059"   "5795556"   "5811031"   "5824622"   "5866027"   "5888425"   "5948314"   "5977241"   "6040375"   "6080475"   "6083619"   "6129949"   "6140377"   "6156386"   "6159539"   "6160190"   "6271292"   "6602336").PN. OR ("6825260").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 13:09

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S54	85	(interpenetrat\$5 near5 (network or membrane or barrier)) and (\$2oxide\$1 or silica or alumina or titania or zirconia) and (polymer or poly\$1acrylonitrile or (polyethylene oxide) or polyethyleneoxide or (poly\$1vinyl alcohol))	EPO; JPO; DERWENT	ADJ	ON	2006/10/11 13:13
S55	0	S54 and (((ammonium near3 molybdophosphate) or (phosphenothious near2 acid) or (\$2thiophosphinic acid) or (phosphenodithious acid) or (phosphonopyridine near3 \$1oxide\$1)) or cesium)	EPO; JPO; DERWENT	ADJ	ON	2006/10/11 14:13
S56	66	(interpenetrat\$5 near5 (network or membrane or barrier)) and (\$2oxide\$1 or silica or alumina or titania or zirconia) and (polymer or poly\$1acrylonitrile or (polyethylene oxide) or polyethyleneoxide or (poly\$1vinyl alcohol))	DERWENT	ADJ	ON	2006/10/11 13:13
S57	0	(interpenetrat\$5 near5 (network or membrane or barrier)) and (silica or alumina or titania or zirconia or (silicon \$3oxide) or (aluminum \$3oxide) or (titanium \$3oxide) or (zirconium oxide)) and (poly\$1acrylonitrile or (polyethylene oxide) or polyethyleneoxide or (poly\$1vinyl alcohol)) and \$4composite\$1	DERWENT	ADJ	ON	2006/10/11 13:14
S58	1	(interpenetrat\$5 near5 (network or membrane or barrier)) and (silica or alumina or titania or zirconia or (silicon \$3oxide) or (aluminum \$3oxide) or (titanium \$3oxide) or (zirconium oxide)) and (poly\$1acrylonitrile or (polyethylene oxide) or polyethyleneoxide or (poly\$1vinyl alcohol))	DERWENT	ADJ	ON	2006/10/11 13:14
S59	346	S49 and (nano\$1composite\$1 or nano or nm or nano\$1particle\$1 or nano\$1composition\$1 or nanometer or sub\$1micron)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:07
S60	225	S49 and (nano\$1composite\$1 or nano or nano\$1particle\$1 or nano\$1composition\$1 or nanometer or sub\$1micron)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:07
S61	291	(interpenetrat\$5 near5 (network or membrane or barrier)) and (silica or alumina or titania or zirconia or (silicon \$3oxide) or (aluminum \$3oxide) or (titanium \$3oxide) or (zirconium oxide)) and (poly\$1acrylonitrile or (polyethylene oxide) or polyethyleneoxide or (poly\$1vinyl alcohol)) and (nano\$1composite\$1 or nano or nano\$1particle\$1 or nano\$1composition\$1 or nanometer or sub\$1micron)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:33
S62	1	S61 and (aminomolybdophosphate or (ammonium near3 molybdophosphate) or (phosphenothious near2 acid) or (\$2thiophosphinic acid) or (phosphenodithious acid) or (phosphonopyridine near3 \$1oxide\$1))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:17
S63	1	S61 and (cesium with (remov\$5 or eliminat\$5 or captur\$5 or bind\$5))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:16
S64	1	S61 and (aminomolybdophosphate or (ammonium near3 molybdophosphate) or (phosphenothious near2 acid) or (\$2thiophosphinic acid) or (phosphenodithious acid) or (phosphonopyridine))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:17
S65	1	S61 and (aminomolybdophosphate or (ammonium near3 molybdophosphate) or phosphenothious or \$2thiophosphinic acid or phosphenodithious or phosphonopyridine)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:31
S66	1	"5412016".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:31

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S67	47	(interpenetrat\$5 near5 (network or membrane or barrier)) and (silica or alumina or titania or zirconia or (silicon \$3oxide) or (aluminum \$3oxide) or (titanium \$3oxide) or (zirconium oxide)) and (poly\$1acrylonitrile or (polyethylene oxide) or polyethyleneoxide or (poly\$1vinyl alcohol)) and nano\$1composite\$1	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 15:07
S68	8	S67 and cesium	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:53
S69	4	S67 and chelat\$5	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:48
S70	1	S67 and ((cation or anion or ion) with (captur\$5 or sequest\$6))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:59
S71	15	S67 and ((cation or anion or ion) with (captur\$5 or sequest\$6 or exchang\$5))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 14:59
S72	158	(interpenetrat\$5 near5 (network or membrane or barrier)) and (silica or alumina or titania or zirconia or (silicon \$3oxide) or (aluminum \$3oxide) or (titanium \$3oxide) or (zirconium oxide)) and (poly\$1acrylonitrile or (polyethylene oxide) or polyethyleneoxide or (poly\$1vinyl alcohol)) and ((cation or anion or ion) with (captur\$5 or sequest\$6 or exchang\$5))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 15:00
S73	5	((precursor near5 (inorganic or oxide)) with( tetraethylorthosilicate or TEOS or tetraisopropoxyorthotitanate or (zirconium near2 butoxide) or (aluminum near3 butoxide))) and (ion near2 exchange\$3 near3 (membrane or resin or barrier))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 15:07
S74	125	(poly\$1acrylonitrile or (polyethylene oxide) or polyethyleneoxide or (poly\$1vinyl alcohol)) and nano\$1composite\$1 and ((precursor near5 (inorganic or oxide)) or (tetraethylorthosilicate or TEOS or tetraisopropoxyorthotitanate or (zirconium near2 butoxide) or (aluminum near3 butoxide)))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 15:10
S75	1	S74 and ((aminomolybdophosphate or (ammonium near3 molybdophosphate) or phosphenothious or \$2thiophosphinic acid or phosphenodithious or phosphonopyridine) or (cesium with (captur\$4 or remov\$5 or bind\$4)))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 15:11
S76	36	S74 and ((aminomolybdophosphate or (ammonium near3 molybdophosphate) or phosphenothious or \$2thiophosphinic acid or phosphenodithious or phosphonopyridine) or (ion with (captur\$4 or remov\$5 or bind\$4)))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/11 15:12

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	((ammonium near3 molybdophosphate) or (phosphenothious near2 acid) or (\$2thiophosphinic acid) or (phosphenodithious acid) or (phosphonopyridine near3 \$1oxide\$1)) same (cesium)) and membrane	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/15 21:22
L2	20	((ammonium near3 molybdophosphate) or (phosphenothious near2 acid) or (\$2thiophosphinic acid) or (phosphenodithious acid) or (phosphonopyridine near3 \$1oxide\$1)) same (cesium))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/15 19:44
L3	196	AMP same cesium	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/15 19:45
L4	39	I3 and (polyacrylonitrile or polyethylene oxide or polyethylene glycol or polyvinyl acetate or polyvinyl alcohol)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/15 19:46
L5	65	I3 and membrane	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/15 19:46
L6	1	"20020032272".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/15 21:23